

# PATENT ABSTRACTS OF JAPAN

(11) Publication number : 07-057798

(43) Date of publication of application : 03.03.1995

(51) Int.CI.

H01R 4/70

(21) Application number : 05-201653

(71) Applicant : SUMITOMO 3M LTD  
TOKYO ELECTRIC POWER CO  
INC:THE

(22) Date of filing :

13.08.1993

(72) Inventor : TANAKA KIYOTAKA

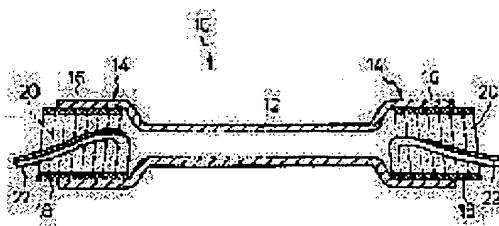
NAKAMURA TSUNEHISA  
KITAMURA OSAMU  
MOCHIZUKI KAZUHISA

## (54) COVERING TUBE FOR WIRE CONNECTION PART

### (57) Abstract:

PURPOSE: To provide a covering tube, which can be installed in a wire connection part quickly without using a heating source and which obtain the excellent moisture-proofing effect, insulating effect and mechanical protecting effect with high reliability.

CONSTITUTION: A covering tube 10 is provided with a tubular sleeve part 12 made of flexible material having electric insulating property and tubular seal parts 14 having electric insulating property and provided at each end of the sleeve part 12. The seal part 14 is provided with an elastic extending/shrinking element 16 formed integrally with the sleeve part 12 and a core element 18 arranged inside of the elastic shrinking element 16 and for holding the elastic shrinking element 16 under the condition that the diameter thereof is enlarged at a predetermined diameter dimension. The elastic shrinking element 16 is made of rubber material having electric insulating property, a high elasticity restoring rate and the excellent permanent extending characteristic. When the core element 18 is eliminated at the time of installing the covering tube 10 to a wire



**BEST AVAILABLE COPY**

connection part, the elastic shrinking element 16 is tightly stuck to the outer surface of the coating of a wire by the elastic restoring force thereof.

---

**LEGAL STATUS**

[Date of request for examination] 23.02.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3278502

[Date of registration] 15.02.2002

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

**BEST AVAILABLE COPY**